Attorney Docket: 0257061C/2631C

## Amendments to the Specification:

Page 5, line 22,

FIG. 2 is a FIGS 2A and 2B are flow charts illustrating a process for calibrating a process simulator to compensate for process variations of the masking process in accordance with a preferred embodiment of the present invention.

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FIG. 2 is a FIGS 2A and 2B are flow charts illustrating a process for calibrating a process simulator to compensate for process variations of the masking process in accordance with a preferred embodiment of the present invention. The process begins in step 50 by providing a process simulation program that operates in accordance with the present invention on a server, and making the program available over a network, such as the Internet.

Page 10, line 14,

also be used to detect the edges, as disclosed in U.S. Serial No. 10/327,452———, entitled "Adaptive SEM Edge Recognition Algorithm-," filed on December 2002.

In the Abstract, Page 27

A method and system is provided for automatically calibrating a masking process simulator are disclosed. The method and system include performing a masking process using using a calibration mask and process parameters to produce a calibration pattern on a wafer. A digital image is created of the calibration pattern, and the edges of the pattern are detected from the digital image using pattern recognition. Data defining the calibration mask and at least one of the process parameters are then input to a process simulator to produce an alim image estimating the calibration pattern that would be produced by the masking process. The method and system further include overlaying the The alim image and the detected edges of the digital image are then overlaid, and measuring a distance between contours of the pattern in the alim image and the detected edges is measured. Thereafter, one One or more mathematical algorithms are used to iteratively change the values of the processing parameters input to the simulator until a set of processing parameter values are found that produces a minimum distance between the contours of the pattern in the alim image and the detected edges, thereby effectively calibrating the process simulator to compensate for process variations of the masking process.